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EXAM OBJECTIVES FOR MCSE CERTIFICATION EXAM #70-220: DESIGNING SECURITY FOR A MICROSOFT WINDOWS 2000 NETWORK

ANALYZING BUSINESS REQUIREMENTS

Objective	Chapter: Section	Hands-on Project(s)
Analyze the existing and planned business models. <ul style="list-style-type: none">■ Analyze the company model and the geographical scope. Models include regional, national, international, subsidiary, and branch offices.■ Analyze company processes. Processes include information flow, communication flow, service and product life cycles, and decision-making.	Chapter 2: Identifying Business Models	
Analyze the existing and planned organizational structures. Considerations include management model; company organization; vendor, partner, and customer relationships; and acquisition plans.	Chapter 2: Identifying Business Models	
Analyze factors that influence company strategies. <ul style="list-style-type: none">■ Identify company priorities.■ Identify the projected growth and growth strategy.■ Identify relevant laws and regulations.■ Identify the company's tolerance for risk.■ Identify the total cost of operations.	Chapter 2: Identifying Corporate Strategies and Goals	

Objective	Chapter: Section	Hands-on Project(s)
Analyze business and security requirements for the end user.	Chapter 2: Identifying the Current Security Model	
Analyze the structure of IT management. Considerations include type of administration, such as centralized or decentralized; funding model; outsourcing; decision-making process; and change-management process.	Chapter 2: Identifying IT Administrative Structures	
Analyze the current physical model and information security model. <ul style="list-style-type: none"> <li data-bbox="266 552 737 578">■ Analyze internal and external security risks. 	Chapter 2: Identifying the Current Technical Environment Chapter 1: Internal Security Risks Chapter 1: External Security Risks	

ANALYZING TECHNICAL REQUIREMENTS

Objective	Chapter: Section	Hands-on Project(s)
Evaluate the company's existing and planned technical environment. <ul style="list-style-type: none"> <li data-bbox="257 943 737 996">■ Analyze company size and user and resource distribution. <li data-bbox="257 996 737 1085">■ Assess the available connectivity between the geographic location of work sites and remote sites. <li data-bbox="257 1085 737 1111">■ Assess the net available bandwidth. <li data-bbox="257 1111 737 1138">■ Analyze performance requirements. <li data-bbox="257 1138 737 1191">■ Analyze the method of accessing data and systems. <li data-bbox="257 1191 737 1298">■ Analyze network roles and responsibilities. Roles include administrative, user, service, resource ownership, and application. 	Chapter 2: Identifying the Current Technical Environment	
Analyze the impact of the security design on the existing and planned technical environment. <ul style="list-style-type: none"> <li data-bbox="257 1387 737 1440">■ Assess existing systems and applications. <li data-bbox="257 1440 737 1493">■ Identify existing and planned upgrades and rollouts. <li data-bbox="257 1493 737 1520">■ Analyze technical support structure. <li data-bbox="257 1520 737 1566">■ Analyze existing and planned network and systems management. 	Chapter 1: Managing Security Risks Chapter 2: Identifying the Current Technical Environment	

ANALYZING SECURITY REQUIREMENTS

Objective	Chapter: Section	Hands-on Project(s)
Design a security baseline for a Windows 2000 network that includes domain controllers, operations masters, application servers, file and print servers, RAS servers, desktop computers, portable computers, and kiosks.	Chapter 4: Securing Active Directory Chapter 6: Securing Servers Using Security Templates	Project 4-1 Project 4-2 Project 4-3 Project 4-4 Project 4-5
Identify the required level of security for each resource. Resources include printers, files, shares, Internet access, and dial-in access.	Chapter 3: All sections Chapter 6: All sections	Project 3-1 Project 3-2 Project 3-3 Project 3-4

DESIGNING A WINDOWS 2000 SECURITY SOLUTION

Objective	Chapter: Section	Hands-on Project(s)
Design an audit policy.	Chapter 3: Configuring an Audit Policy	Project 3-6 Project 3-7
Design a delegation of authority strategy.	Chapter 4: Delegating Administrative Tasks	Project 4-6
Design the placement and inheritance of security policies for sites, domains, and organizational units.	Chapter 4: Implementing Group Policies for Security	Project 4-8
Design an Encrypting File System strategy.	Chapter 3: Encrypting File System	Project 3-5
Design an authentication strategy. <ul style="list-style-type: none"> ■ Select authentication methods. Methods include certificate-based authentication, Kerberos authentication, clear-text passwords, digest authentication, smart cards, NTLM, RADIUS, and SSL. ■ Design an authentication strategy for integration with other systems. 	Chapter 3: Implementing User Authentication Chapter 6: Implementing Secure Access for Non-Microsoft Clients	
Design a security group strategy.	Chapter 4: Implementing Security Groups	Project 4-7
Design a Public Key Infrastructure. <ul style="list-style-type: none"> ■ Design Certificate Authority (CA) hierarchies. ■ Identify certificate server roles. ■ Manage certificates. ■ Integrate with third-party CAs. ■ Map certificates. 	Chapter 5: All sections	Project 5-1 Project 5-2 Project 5-3 Project 5-4

Objective	Chapter: Section	Hands-on Project(s)
<p>Design Windows 2000 network services security.</p> <ul style="list-style-type: none"> ■ Design Windows 2000 DNS security. ■ Design Windows 2000 Remote Installation Services (RIS) security. ■ Design Windows 2000 SNMP security. ■ Design Windows 2000 Terminal Services security. 	Chapter 6: All sections	Project 6-1 Project 6-2 Project 6-3 Project 6-4 Project 6-5

DESIGNING A SECURITY SOLUTION FOR ACCESS BETWEEN NETWORKS

Objective	Chapter: Section	Hands-on Project(s)
Provide secure access to public networks from a private network.	Chapter 10: Securing User Access to the Internet	Project 10-1 Project 10-2 Project 10-3 Project 10-4
Provide external users with secure access to private network resources.	Chapter 10: Securing the Internal Network from the Internet	
Provide secure access between private networks. <ul style="list-style-type: none"> ■ Provide secure access within a LAN. ■ Provide secure access within a WAN. ■ Provide secure access across a public network. 	Chapter 9: All sections	Project 9-1 Project 9-2 Project 9-3 Project 9-4
Design Windows 2000 Security for remote access users.	Chapter 8: All sections	Project 8-1 Project 8-2 Project 8-3 Project 8-4

DESIGNING SECURITY FOR COMMUNICATION CHANNELS**A**

Objective	Chapter: Section	Hands-on Project(s)
Design an SMB-signing solution.	Chapter 7: Implementing Server Message Block Signing	Project 7-1
Design an IPSec solution. <ul style="list-style-type: none">■ Design an IPSec encryption scheme.■ Design an IPSec management strategy.■ Design negotiation policies.■ Design security policies.■ Design IP filters.■ Define security levels.	Chapter 7: Securing Network Traffic Using IPSecurity	Project 7-2 Project 7-3 Project 7-4

